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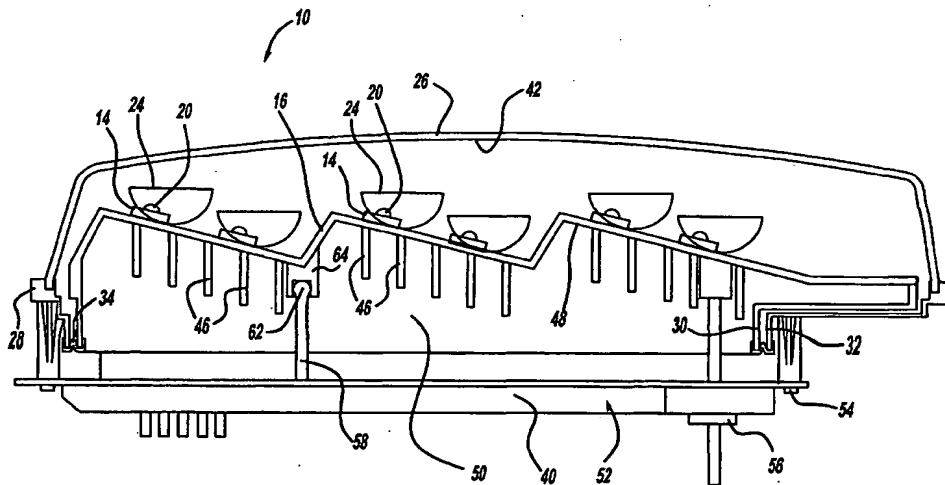
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- (71) Applicant (for all designated States except US): **SCHEFENACKER VISION SYSTEMS USA INC.** [US/US]; 1855 Busha Highway, Marysville, MI 48040 (US).
- (72) Inventors; and (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
- (75) Inventors/Applicants (for US only): **LUCAS, Kyle, P.** [US/US]; 350 N. Rochester Road, Apt. 103, Clawson,

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR MOUNTING AND ADJUSTING LED HEADLAMPS



(57) Abstract: An LED headlamp assembly (10) for a vehicle. The headlamp assembly (10) includes a plurality of LED units (14) mounted to a common carrier (16), where the LED units (14) include one or more LEDs and generate white light. The headlamp assembly (10) further includes a headlamp housing (28) that is mounted to the vehicle by a mounting frame (52). The carrier (16) is sealed to the housing (28) by a flexible bellows (34). An outer lens (26) is mounted to the housing (28) so that the LED units (14) are positioned within a sealed compartment (42). A backside of the carrier (16) outside of the sealed compartment (42) includes fins (46) or other heat sinking devices to remove heat generated by the LED units (14). The frame (52) allows convective air to flow around the heat sink (46) to remove heat from the LED units (14). A series of actuators (56) and/or pivots (58) are mounted to the frame (52) and to the carrier (16) so that the carrier (16) can be moved on at least one axis to adjust the direction of the LED headlamp assembly (10).

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